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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,976	11/21/2003	Xuedong Song	KCX-693 (19341)	1744
22827 DORITY & MA	7590 11/23/200 ANNING, P.A.	EXAMINER		
POST OFFICE	BOX 1449	DIRAMIO, JACQUELINE A		
GREENVILLE, SC 29602-1449			ART UNIT	PAPER NUMBER
			1641	
			MAIL DATE	DELIVERY MODE
			11/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/719,976	SONG, XUEDONG			
Office Action Summary	Examiner	Art Unit			
	JACQUELINE DIRAMIO	1641			
The MAILING DATE of this communication a	ppears on the cover sheet with the	correspondence address			
Period for Reply	LV IO OET TO EVEIDE AMONTH	((0) OD THIDTY (00) DAYO			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION I.136(a). In no event, however, may a reply be to divide apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 31.  2a) This action is <b>FINAL</b> . 2b) Th  3) Since this application is in condition for allow	is action is non-final.	rosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)  Claim(s) 1-6,9-13 and 39-45 is/are pending in 4a) Of the above claim(s) is/are withdr 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-6,9-13 and 39-45 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Examir 10) The drawing(s) filed on 26 April 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination.	a)⊠ accepted or b)⊡ objected to e drawing(s) be held in abeyance. Se ection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	4) T Internation Co.	ny (PTO 442)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	4)  Interview Summar Paper No(s)/Mail [ 5)  Notice of Informal 6)  Other:	Date			

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#### **DETAILED ACTION**

## Status of the Claims

1. Currently, claims 1 - 6, 9 - 13, and 39 - 45 are pending and under examination.

# Withdrawn Rejections

2. All previous rejections of the claims under 35 U.S.C. 103(a) are withdrawn in view of Applicant's arguments filed July 31, 2009.

## Response to Arguments

3. Applicant's arguments, see pages 6-12, filed July 31, 2009, with respect to the rejection(s) of the claim(s) under 35 U.S.C. 103(a) as being unpatentable over Rylatt et al. (WO 97/09620), as evidenced by Fitzpatrick et al. (US 6,121,008), and further in view of Virtanen (US 2005/021487) and Jou et al. (US 5,670,381) have been fully considered and are persuasive. In particular, Applicant's arguments that the secondary references of Virtanen and Jou et al. fail to render obvious the combination of the charged substances taught by Virtanen and Jou et al., such as the polyelectrolyte substance taught by Jou et al, with the device of Rylatt et al. are found persuasive. Therefore, the rejections have been withdrawn. However, upon further consideration, a new ground(s) of rejection is made and presented below.

### **NEW GROUNDS OF REJECTION**

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, lines 11-12, recites that the polyelectrolyte has a "net charge opposite to that of the detection probes." However, after further review, this recitation is considered to lack antecedent basis given that the detection probes are never recited to contain a particular net charge.

## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-6, 9-11, and 39-45 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 24, 25, 30-

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36, and 41 of copending Application No. 10/132,421 (US 2003/0124739). Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant application and the copending application recite a flow-through assay device for detecting an analyte residing in a test sample, the flow-through assay device comprising a porous membrane, said porous membrane being in communication with detection probes conjugated with a specific binding member, said porous membrane defining:

a detection zone within which is immobilized a capture reagent configured to bind with the conjugated detection probes or complexes thereof to generate a detection signal; and

a calibration/compensation zone positioned downstream from said detection zone, wherein a polyelectrolyte is immobilized within said calibration/compensation zone, said polyelectrolyte having a net charge opposite to that of the conjugated detection probes, the polyelectrolyte being configured to bind to said conjugated detection probes to generate a calibration/compensation signal.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented. Although, it is noted that the claims of the copending application have been allowed.

## Conclusion

6. No claims are allowed.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to JACQUELINE DIRAMIO whose telephone number is (571)272-

8785. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Shibuya can be reached on 571-272-0806. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jacqueline DiRamio/

Examiner, Art Unit 1641

/GAILENE R. GABEL/

Primary Examiner, Art Unit 1641

11/19/09